



January 17, 2020

**WATER UTILITIES**

*Maintenance of Lines  
& Treatment*  
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Corpus Christi  
Texas 78415  
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Texas Commission on Environmental Quality  
Attn: Bert Galvan  
P.O. Box 13087 (MC160)  
Austin, Texas, 78711

**Subject: TCEQ Water Rights Permitting Application  
City of Corpus Christi (CN: 600131858)**

Dear Mr. Galvan,

The City of Corpus Christi is requesting a Water Rights Permit from the Texas Commission on Environmental Quality for a proposed desalination plant at the above location.

The proposed system will divert up to 166.2 million gallons per day (MGD) to provide municipal and industrial water through the process of desalination.

The purpose of this project is to provide sustainable water source that is not dependent on freshwater sources. Please find enclosed a water rights permit application with all required attachments.

If you have questions, please contact Steve Ramos at 361-826-3294 or by email at [estebanr2@cctexas.com](mailto:estebanr2@cctexas.com).

Respectfully,

Daniel M. Grimsbo, P.E.  
Executive Director of Water Utilities  
City of Corpus Christi

# WORKSHEET 1.0

## Quantity, Purpose and Place of Use

### 1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acre- feet) (Include losses for Bed and Banks)	State Water Source (River Basin) or Alternate Source <i>*each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0</i>	Purpose(s) of Use	Place(s) of Use <i>*requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer</i>
186,295	La Quirola Channel of Corpus Christi Bay (San Antonio Nueces Coastal Basin)	Municipal and Industrial	San Patricio, Nueces and Aransas counties

186,295 Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

#### 1. Location Information Regarding the Lands to be Irrigated

i) Applicant proposes to irrigate a total of \_\_\_\_\_ acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of \_\_\_\_\_ acres in \_\_\_\_\_ County, TX.

ii) Location of land to be irrigated: In the \_\_\_\_\_ Original Survey No. \_\_\_\_\_, Abstract No. \_\_\_\_\_.

***A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.***

***If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.***

***Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.***

## **Water Conservation Plans Submitted with a Water Right Application for New or Additional State Water**

This supplement to Corpus Christi's Water Conservation Plan addresses the requirement of §288.7 of the Texas Administrative Code that a water conservation plan submitted with an application for a new or additional appropriation of water must include data and information which:

1. Supports the applicant's proposed use of water with consideration of the water conservation goals of the WCP;
2. Evaluates conservation as an alternative to the proposed appropriation; and
3. Evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Applicant's proposed use of water. The applicant (City of Corpus Christi) proposes to use the water as requested from the Inner Harbor and La Quinta Channel by desalination and use for municipal purposes within Aransas, Kleberg, Nueces and San Patricio Counties. This water would be used to meet water supply needs within those counties, including retail sales to residential, commercial, manufacturing and institutional customers. Water needs were identified through the state water planning process, which considers reduced per capita water use that is consistent with the goals of Corpus Christi's WCP.

Conservation as an alternative to the requested appropriation. As part of the regional planning process, the planning groups are required to perform a comprehensive analysis of potentially feasible water management strategies, including consideration of water conservation. The proposed water right application supports a recommended project in the 2016 Region N Water Plan and 2017 State Water Plan. The five-year and ten-year per capita goals outlined in Corpus Christi's WCP are consistent with the 2016 Region N projections. In addition, this project promotes regionalization and serves as an alternative to existing fresh water supplies that further promotes conservation of existing fresh water supplies.

Other feasible alternatives. The proposed amount of appropriation outlined in the application is consistent with the 2016 Region N Plan as evidenced by a letter attached with the water right application.

The 2016 Region N Plan identified additional potentially feasible alternatives to the proposed desalination project to meet needs in Nueces County which include:

- GBRA Lower Basin Off-Channel Reservoir
- Additional Reuse – Corpus Christi
- Manufacturing Water Conservation
- O.N. Stevens WTP Improvements

The 2016 Region N Plan identified additional potentially feasible alternatives to the proposed desalination project to meet needs in San Patricio County which include:

- GBRA Lower Basin Off-Channel Reservoir
- Manufacturing Water Conservation
- Portland Reuse Pipeline
- SPMWD Industrial WTP Improvements

Desalination is the only recommended strategy that has sufficient quantity to meet the projected needs in these counties.